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| APPLICATION NO.                     | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/008,476                          | 12/10/2001  | James B.Y. Tsui      | AFD 481             | 9380             |
| 26902                               | 7590        | 03/28/2005           | EXAMINER            |                  |
| DEPARTMENT OF THE AIR FORCE         |             |                      | HA, DAC V           |                  |
| AFMC LO/JAZ                         |             |                      | ART UNIT            | PAPER NUMBER     |
| 2240 B ST., RM. 100                 |             |                      |                     |                  |
| WRIGHT-PATTERSON AFB, OH 45433-7109 |             |                      | 2634                |                  |

DATE MAILED: 03/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| <b>Office Action Summary</b> | <b>Application No.</b>       | <b>Applicant(s)</b>     |
|------------------------------|------------------------------|-------------------------|
|                              | 10/008,476                   | TSUI ET AL.             |
|                              | <b>Examiner</b><br>Dac V. Ha | <b>Art Unit</b><br>2634 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 10 December 2001.

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-18 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5)  Claim(s) \_\_\_\_\_ is/are allowed.  
6)  Claim(s) \_\_\_\_\_ is/are rejected.  
7)  Claim(s) 1-18 is/are objected to.  
8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/10/01.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_\_

## DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

2. **Claims 1-18** are objected to because of the following informalities:

**Claim 1:**

Line 8, "a digital filter bank output clock cycle delaying means" should be changed to clarify and specify what its function (i.e. "clock cycle delaying means for delaying the digital filter output").

Line 9, "a digital bank output signal eliminating threshold" should be changed to, i.e. "eliminating the digital filter bank output by comparing to a preselected threshold".

Line 11, the recitation "said signal eliminating threshold" should be changed in accordance with the change in line 9.

Line 13, "said signal output" should be "the signal output".

**Claim 4:**

Line 1, "said monobit receivers" should be "the monobit receiver".

**Claim 5** should be changed to reflect the change in **Claim 1**, line 8.

**Claim 6:**

Lines 1-2, "said digital filter output signal sampling rate" should be "the digital filter output signal sampling rate".

**Claim 7:**

Line 1, "said monobit receivers" should be "the monobit receivers".

**Claim 9:**

Line 2, "said plurality of monobit receivers" should be "said plurality of narrow-band monobit receivers".

**Claim 11:**

Line 8-9, "a digital filter bank output dock cycle delaying means comprising two delay lines between each filter output" should be changed in ordered to be connected to the claim, i.e. "a digital filter bank output dock cycle delaying means comprising two delay lines between each filter output for delaying the digital filter bank output".

Line 10, "a digital bank output signal-eliminating threshold" should be changed to, i.e. "means for eliminating the digital filter bank output by comparing to a pre-selected threshold".

Line 11, the recitation "said signal eliminating threshold" should be changed in accordance with the change in line 10.

Lines 12-13, "said signal output" should be "the signal output".

Lines 13-14, the recitation "said signal eliminating threshold" should be changed in accordance with the change in line 10.

Line 14, "said monobit receivers" should be "the monobit receivers".

Line 18, "said plurality of monobit receivers" should be "said plurality of narrow-band monobit receivers".

**Claim 12:**

Line 8, "said digital filter bank output" should be changed to "the digital filter bank output".

Line 11, "said signal eliminating threshold" should be changed to "said preselected threshold".

Line 12, "narrow-band receivers" should be "narrow-band monobit receivers".

Lines 12-13, "said signal output" should be "the signal output".

Lines 13-14, "said signal eliminating threshold" should be "said preselected threshold".

**Claim 15:**

Line 5, "a plurality of narrow-band monobit receivers" should be "said plurality of narrow-band monobit receivers".

**Claim 16:**

Line 2, "said digital filter bank output cycle clock" should be changed to "the digital filter bank output cycle clock".

**Claim 18:**

Line 2, "said plurality of monobit receivers" should be "said plurality of narrow-band monobit receivers".

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO** **MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040.

The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Dac V. Ha  
Primary Examiner  
Art Unit 2634